

INCH-POUND

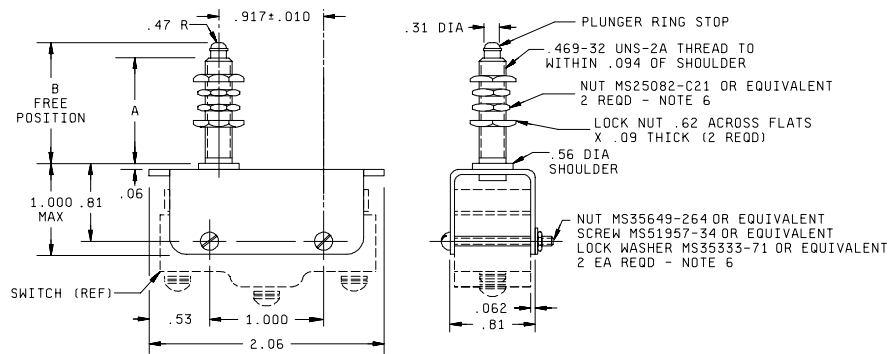
MIL-S-8805/58D
31 October 2001
SUPERSEDING
MIL-S-8805/58C
16 June 1993

MILITARY SPECIFICATION SHEET
SWITCH, ACTUATOR, EXTENDED PLUNGER TYPE

Inactive for new design after 30 April 1974.

This specification forms a part of MIL-PRF-8805, dated 23 January 1998, and is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-PRF-8805.



Inches	mm	Inches	mm	Inches	mm	Inches	mm
.005	0.13	.09	2.29	.53	13.46	1.000	25.40
.010	0.25	.094	2.39	.56	14.22	2.06	52.32
.020	0.51	.31	7.87	.62	15.75		
.060	1.52	.469	11.91	.81	20.57		
.062	1.57	.47	11.94	.917	23.29		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .02$ inch (0.51 mm) for two place decimals and $\pm .005$ inch (0.13 mm) for three place decimals.
4. Actuator configuration optional within the specified envelope dimensions.
5. See table I for "A" and "B" dimensions.
6. Functionally equivalent mounting hardware, as approved by the qualifying activity, may be provided.

FIGURE 1. Dimensions and configuration.

MIL-S-8805/58D

REQUIREMENTS:

Dimensions and configuration: See figure 1. The switch actuator shall accommodate basic sensitive switches MIL-PRF-8805/30 and M8805/1-008.

Enclosure design: 1 (unsealed).

Temperature characteristic: 1 (-55°C to +85°C).

Shock type: M (100 g's).

Sinusoidal vibration: 10 to 55 Hz in accordance with MIL-STD-202, method 201.

Weight: 0.15 pound maximum.

Operating characteristics:

Actuating force: $1.625 \pm .625$ pounds.

Pretravel: .035 inch maximum.

Overtravel: .188 inch minimum.

Full overtravel force: see table I.

Spring force: 2 pounds minimum.

Mechanical endurance: 50,000 cycles.

Qualification: The actuator shall be tested to the requirements of this specification sheet only with an MIL-PRF-8805/30 or M8805/1-008 switch installed.

Quality conformance:

Group A inspection: The materials and physical dimension requirements may be verified through in-process controls and inspections.

Group B inspection: Not applicable.

Part or Identifying Number (PIN): See table I.

MIL-S-8805/58D

TABLE I. PINs' dimensions, and overtravel characteristics.

PIN	"A" ± 0.02 (0.51) ^{1/}	"B" maximum ^{1/}	Maximum overtravel force Pounds
AN3167-1	1.69 (42.93)	2.79 (70.87)	5.5
AN3168-1	1.69 (42.93)	2.16 (59.87)	4.0
AN3168-2	0.69 (17.53)	1.16 (29.47)	5.0

^{1/} Dimensions are in inches. Metric equivalents to the nearest .01 mm are given in parenthesis

Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5930-1126-20)

Review activities:

Army - AR, AV
Navy - AS, MC
Air Force - 19